

Applicant : Rourke, et al.
Appl. No. : 10/719,228
Examiner : O'Connor Cary E.
Docket No. : 702563.4010

Amendments to the Claims

Please cancel claims 1, 59-64, and 72.

65. (Currently Amended) A micro-porous mesh structure for supporting a wall of a body passage, comprising:

a non-polymeric, non-silicone generally tubular body having a contracted condition for facilitating delivery into the body passage, and an enlarged condition for engaging the wall of the body passage, the tubular body being biased to its enlarged condition, the tubular body having a plurality of openings defining a micro-porous mesh pattern therein; and

[The micro-porous mesh structure of claim 1, further comprising] a support element that slidably engages the tubular body in the enlarged condition.

66. (Currently Amended) A micro-porous mesh structure for supporting a wall of a body passage, comprising:

a non-polymeric, non-silicone generally tubular body having a contracted condition for facilitating delivery into the body passage, and an enlarged condition for engaging the wall of the body passage, the tubular body being biased to its enlarged condition, the tubular body having a plurality of openings defining a micro-porous mesh pattern therein; and

[The micro-porous mesh structure of claim 1, further comprising] a support element that is attachable to the tubular body during deployment.

Applicant : Rourke, et al.
Appl. No. : 10/719,228
Examiner : O'Connor Cary E.
Docket No. : 702563.4010

67. (Currently Amended) A micro-porous mesh structure for supporting a wall of a body passage, comprising:

a non-polymeric, non-silicone generally tubular body having a contracted condition for facilitating delivery into the body passage, and an enlarged condition for engaging the wall of the body passage, the tubular body being biased to its enlarged condition, the tubular body having a plurality of openings defining a micro-porous mesh pattern therein; and

[The micro-porous mesh structure of claim 1, further comprising] a support element that is substantially permanently attached to the interior surface of the tubular body.

68. (Currently Amended) A micro-porous mesh structure for supporting a wall of a body passage, comprising:

a non-polymeric, non-silicone generally tubular body having a contracted condition for facilitating delivery into the body passage, and an enlarged condition for engaging the wall of the body passage, the tubular body being biased to its enlarged condition, the tubular body having a plurality of openings defining a micro-porous mesh pattern therein; and

[The micro-porous mesh structure of claim 1, further comprising] a support element having a wall thickness of not more than about 150 micrometers (0.006 inch).

Applicant : Rourke, et al.
Appl. No. : 10/719,228
Examiner : O'Connor Cary E.
Docket No. : 702563.4010

69. (Currently Amended) A micro-porous mesh structure for supporting a wall of a body passage, comprising:

a non-polymeric, non-silicone generally tubular body having a contracted condition for facilitating delivery into the body passage, and an enlarged condition for engaging the wall of the body passage, the tubular body being biased to its enlarged condition, the tubular body having a plurality of openings defining a micro-porous mesh pattern therein; and

[The micro-porous mesh structure of claim 1, further comprising] a support element comprising a coiled-sheet having overlapping inner and outer sections.

70. (Currently Amended) A micro-porous mesh structure for supporting a wall of a body passage, comprising:

a non-polymeric, non-silicone generally tubular body having a contracted condition for facilitating delivery into the body passage, and an enlarged condition for engaging the wall of the body passage, the tubular body being biased to its enlarged condition, the tubular body having a plurality of openings defining a micro-porous mesh pattern therein; and

[The micro-porous mesh structure of claim 1, further comprising] a support element comprising a shape memory alloy.

71. (Currently Amended) The [prosthesis] micro-porous mesh structure of claim 70, wherein the shape memory alloy has a transition temperature between

Applicant : Rourke, et al.
Appl. No. : 10/719,228
Examiner : O'Connor Cary E.
Docket No. : 702563.4010

substantially ambient temperatures and body temperature, whereby the tubular element is biased to its enlarged condition when exposed to body temperature.